

"THE MATERIAL HEREIN IS FOR INFORMATION PURPOSES ONLY AND IS SUBJECT TO CHANGE WITHOUT NOTICE. DIGITAL EQUIPMENT CORPORATION ASSUMES NO RESPONSIBILITY FOR ANY ERRORS WHICH MAY APPEAR HEREIN."

FIELD MAINTENANCE PRINT SET

"THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1980 DIGITAL EQUIPMENT CORPORATION."

TABLE OF CONTENTS

NOTE : FOR INSTALLATION AND SET-UP SEE
D-CS-M7134-0-1, SHEET 1.

E-PL-KT24-0-2	MAP OPTION PARTS LIST
B-PL-KT24-0-4	Ship List - MAP Option
B-DD-KT24-0-0	Drawing Directory
D-UA-M7134-0-0	MAP Module (Sheet 1 only)
K-PL-M7134-0-DBP	Parts List (MODULE)
D-CS-M7134-0-1	Circuit Schematic
D-CS-M9302-0-1	UNIBUS TERM

UNIT VARIATIONS COVERED BY THIS PRINT SET

KT24

Field Maintenance Print Set

KT24

Digital Equipment Corporation

MP01029

[illegible]

DRB 124

TW

BLANK

DIGITAL EQUIPMENT CORPORATION PARTS LIST				QUANTITY / VARIATION												NOTES:			
MADE BY A. ROCHA DATE 11 DECEMBER 80		CHECKED <i>A. Rocha</i> DATE 1-15-91		SECTION															
ENG <i>A. Rocha</i> DATE 1-15-91		PROD <i>R. Rocha (LHO)</i> DATE 2-20-91		ISSUED SECTION															
ITEM NO.		DRAWING NO.		PART NO.														DESCRIPTION	
1.		B-PL-KT24-0-4		M7134		MAP MODULE													
2.						SHIPPING LIST													
3.				M9302		UNIBUS TERM													
4.				3700291-00		INST. PKG MODULE, STD SIZES													
E.C.O. NO.																			
"THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1980 DIGITAL EQUIPMENT CORPORATION"						TITLE				ASSY NO.				SIZE	CODE	NUMBER	REV.		
						UNIBUS MAP MODULE PARTS LIST								B	PL	KT24-0-2	A		
						SHEET 1 OF 1				INSERTION PARTS LIST DATA BASE REV									

TW

DIGITAL EQUIPMENT CORPORATION PARTS LIST							QUANTITY / VARIATION								NOTES:								
MADE BY A. ROCHA DATE 11 DECEMBER 80		CHECKED DATE 1-18-81 [Signature]		SECTION			KT24																
ENG P. Rocha DATE 1-19-81		PROD J. Lujan DATE 1-15-81		ISSUED SECTION																			
ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION														REF DESIGNATION						
1.	MP01029	KT24	Field Maint Print Set	1																			
2		ZJ33I-PB ZJ33I-FR	Libkit Libkit	1																			
3	D-AH-M9302-0-5		UNIBUS TERMINATOR	REF																			
4	D-CS-M9302-0-1		UNIBUS TERMINATOR CIRCUIT SCHEM.	REF																			
5		M7134	MAP MODULE	REF																			
E.C.O. NO.																							
<div>"THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1980 DIGITAL EQUIPMENT CORPORATION"</div>				<div>TITLE<div>Unibus MAP Module Ship List</div></div>				<div>ASSY NO.</div> <div>SHEET 1 OF 1</div>				<div>SIZE B</div>	<div>CODE PL</div>	<div>NUMBER KT24-0-4</div>		<div>REV. A</div>							
INSERTION PARTS LIST DATA BASE REV																							

TW

"THE MATERIAL HEREIN IS FOR INFORMATION PURPOSES ONLY AND IS SUBJECT TO CHANGE WITHOUT NOTICE. DIGITAL EQUIPMENT CORPORATION ASSUMES NO RESPONSIBILITY FOR ANY ERRORS WHICH MAY APPEAR HEREIN."

DRAWING DIRECTORY

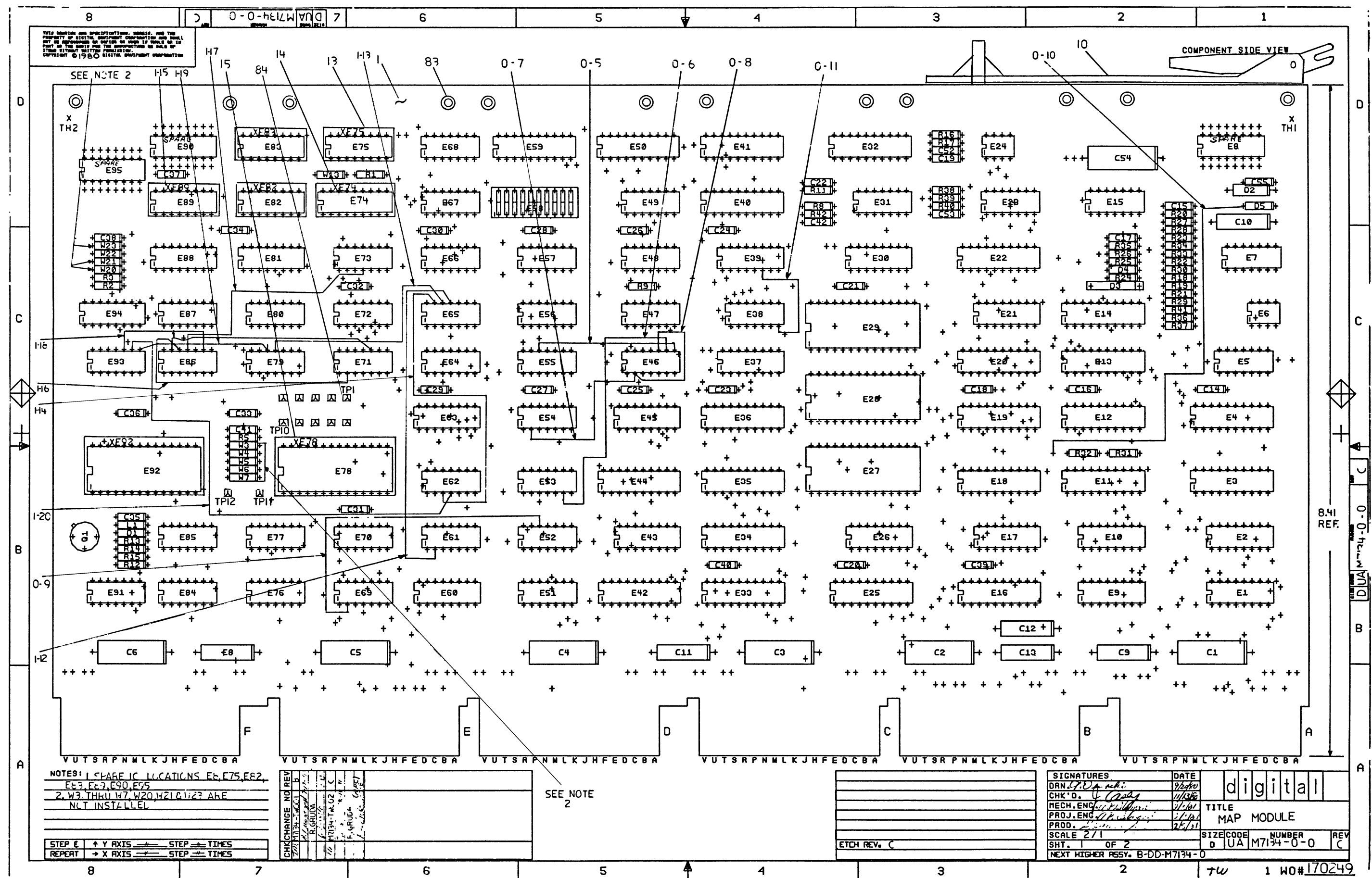
"THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1981 DIGITAL EQUIPMENT CORPORATION

Refer to print set # MP01029

UNIT VARIATIONS

[illegible]

REVISIONS	REV.		USED ON OPTION/MODEL	DRN.	A Roche	DATE	22 DEC 80	TITLE <div>digital</div> UNIBUS MAP OPTION									
	CHANGE NO.			CHK'D	P. Smith	DATE	1-15-81										
	CHK				PROJ. ENG.	P. Smith	DATE	1-15-81	SIZE	CODE	NUMBER						REV
									B	DD	KT24-0-C						A
SHEET 1 OF 2			PROD.	RS Supanier	DATE	1-15-81	DIST.										



8

0 - 0 - 46134 W 00

6

5

4

3

2

1

THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.
COPYRIGHT © 1980 DIGITAL EQUIPMENT CORPORATION

REWORK INSTRUCTIONS:

WIRE ADDS SIDE 1:

- 0-5 FROM E55-12 TO E46-8
- 0-6 FROM E46-9 TO E53-6
- 0-7 FROM E46-2 TO E54-2
- 0-8 FROM E46-10 TO E46-2
- 0-9 FROM E52-12 TO E69-2
- 0-10 FROM ANODE SIDE OF D5 TO PTH LEFT OF R32
- 0-11 FROM E39-6 TO E38-7
- 1-12 FROM E61-2 TO E65-11
- 1-13 FROM E65-12 TO E79-11
- 1-14 FROM E65-13 TO E62-3
- 1-15 FROM E86-13 TO E71-10
- 1-16 FROM E71-2 TO E86-12
- 1-17 FROM E86-11 TO E73-4
- 1-18 FROM E86-9 TO E93-10
- 1-19 FROM E93-8 TO E79-12
- 1-20 FROM E93-9 TO E52-4

D

D

C

C

B

B

A

A

REVISION HISTORY		
DATE	ECO NUMBER	REV

DRD 137A

8

7

6

5

4

3

2

1

TITLE
MAP MODULE

DOCUMENT NUMBER			
SIZE	CODE	NUMBER	REV
D	UA	M7134 - 0 - 0	C
SCALE NONE		SHEET 2 OF 2	

76

SHEET A1 OF A3

REFERENCE DESIGNATOR

C8-C13
C54
C1-C6
C14-C42, C52, C53, C55
D3
D1
D4, D5
D2

E6
E58
XE75, XE82, XE83, XE89
XE74
XE78, XE92
E68
E77
E17, E26
E30, E37
R21, R35
R14
R5, R15, R42
R1, R11, R13
R9, R17, R40, R41
R3, R8
R16
R24
R25
R28
R26, R30

REVISION HISTORY			BASIC PART NO: M7134		DRN: J.CASEY		DATE: 05-FEB-81		D I G I T A L	
ENG	ECO NUMBER	REV	SECTION A OF A		CHK'D: J.CASEY		DATE: 05-FEB-81		TITLE PARTS LIST	
---	INITIAL	A	SECTION.VARIATION INDEX		CHK'D: J.CASEY		DATE: 05-FEB-81		MAP MODULE	
			[A] 00		DES.ENG: A.CALAMARI		DATE: 05-FEB-81		DOCUMENT NUMBER	
			[B]		RESP.ENG.: A.CALAMARI		DATE: 05-FEB-81		SIZE CODE NUMBER REV	
			[C]		MFG.ENG.: G.ABREU		DATE: 05-FEB-81		K PL M7134-0-DBP A	
			[D]		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME: EDIT #	
			[E]		D-UA-M7134-0-0				Z1281A.PLS 16	
			[F]							
			[H]							
			[J]							
			[K]							
			[L]							
			[M]							
			[N]							

"THIS DRAWING AND SPECIFICATIONS HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT (C) 1981. DIGITAL EQUIPMENT CORPORATION"

SHEET A2 OF A3

REFERENCE DESIGNATOR

R20
R27
R31, R38
R2, R7
R36
R37
R32, R39
R22, R34
R29
R23, R33
R19
R12
R18
Q1
L1
E31
E94
E70, E80
E53, E56, E54, E71
E72
E73
E66
E67, E91
E63
E69, E76, E84, E85, E51
E1, E2, E9, E10, E60
E88
E62
E24
E38
E43, E45
E5
E7, E15, E23
E51, E87, E93
E46, E57, E79
E21, E39
E52, E65
E47, E48
E49
E81
E55, E86
E16, E25, E33
E32
E27-E29
E34-E36, E42, E44
E3, E13, E18, E19, E59
E64
E4, E11, E12, E41, E50

D	I	G	I	T	A	L	TITLE	MAP MODULE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
										K	PL	M7134-O-DBP	A

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
79	79		1915193-00	LS244 DRIVER, LINE, OCTAL, T	4	E14, E20, E22, E40
80	80		23000A9-01	*** THIS ITEM IS NOT USED ***	-	
81	81		23054C6-00	C6-01	1	E78
82	82		23774F1-00	F1-01	1	E74
83	83		9000024-01	EYELET, ROLLED FLANGE, .121 OD X	12	
84	84		9009149-00	PIN, STAKING, P.C. BOARD, .025 X	12	TP1-TP12
85	85		9009185-00	JUMPER, WIRE, INSULATED, BLACK B	2	W13, W22
86	86		23063C6-00	C6-01	1	E92

D	I	G	I	T	A	L	TITLE	MAP MODULE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
										K	PL	M7134-0-DBP	A

M7134 JUMPER AND SWITCH SETTINGS

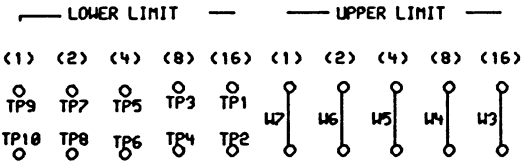
BOOT ROMS

THE CPU SPECIFIC DIAGNOSTIC ROM GOES INTO SOCKET E74. ROMS FOR OTHER BOOTABLE DEVICES GO INTO THE FOLLOWING SOCKETS IN ORDER:

- | | |
|---------------|-----|
| 1. BOOT ROM 1 | E75 |
| 2. BOOT ROM 2 | E89 |
| 3. BOOT ROM 3 | E82 |
| 4. BOOT ROM 4 | E83 |

JUMPER W13 ENABLES THE DIAGNOSTIC ROM WHEN IN, AND IS USUALLY PRESENT.

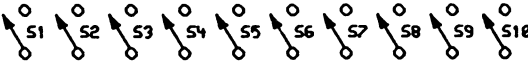
UNIBUS MEMORY SELECT



W3-W7 AND TP1-TP10 ARE THE BINARY-CODED PAGE NUMBER LIMIT(UPPER OR LOWER). A JUMPER IN CORRESPONDS TO A LOGIC "0" A JUMPER OUT TO A LOGIC "1". TO SET THE JUMPERS, DETERMINE WHICH UNIBUS PAGE THE MEMORY RESIDES IN (0-31) BY CHECKING WHICH OF THE 5 ADDRESS BITS BA17-BA13 ARE ASSERTED. NOTE THAT THE JUMPERS ARE IN REVERSE BINARY ORDER. ALL ZEROES IS PAGE 0, BA13 ASSERTED ALONE IS PAGE 1, ETC UP TO 31 (11111). FOR UNIBUS MEMORY TO BE DETECTED, IT MUST LIE AT OR ABOVE THE LOWER LIMIT JUMPER SETTING AND BELOW THE UPPER LIMIT JUMPER SETTING. THUS TO HAVE UNIBUS MEMORY IN PAGES 5-9, ONE WOULD SET THE LOWER LIMIT TO PAGE 5 (0100), OR W12, W10 OUT, W11, W9, W8 IN, AND THE UPPER LIMIT TO PAGE 10 (01010) OR W6, W4 OUT AND W7, W5, W3 IN. UNIBUS MEMORY MUST BE CONTIGUOUS WHEN USED-NO GAPS ALLOWED. BEWARE THAT DMA TRAFFIC TO MAIN MEMORY WILL BE INTERCEPTED BY UNIBUS MEMORY PRESENT ON THE UNIBUS.

BOOT SETTINGS

BOOT SWITCHES-E58, K4-9
FOR ALL SWITCHES ON=CLOSED=LOGIC "1"



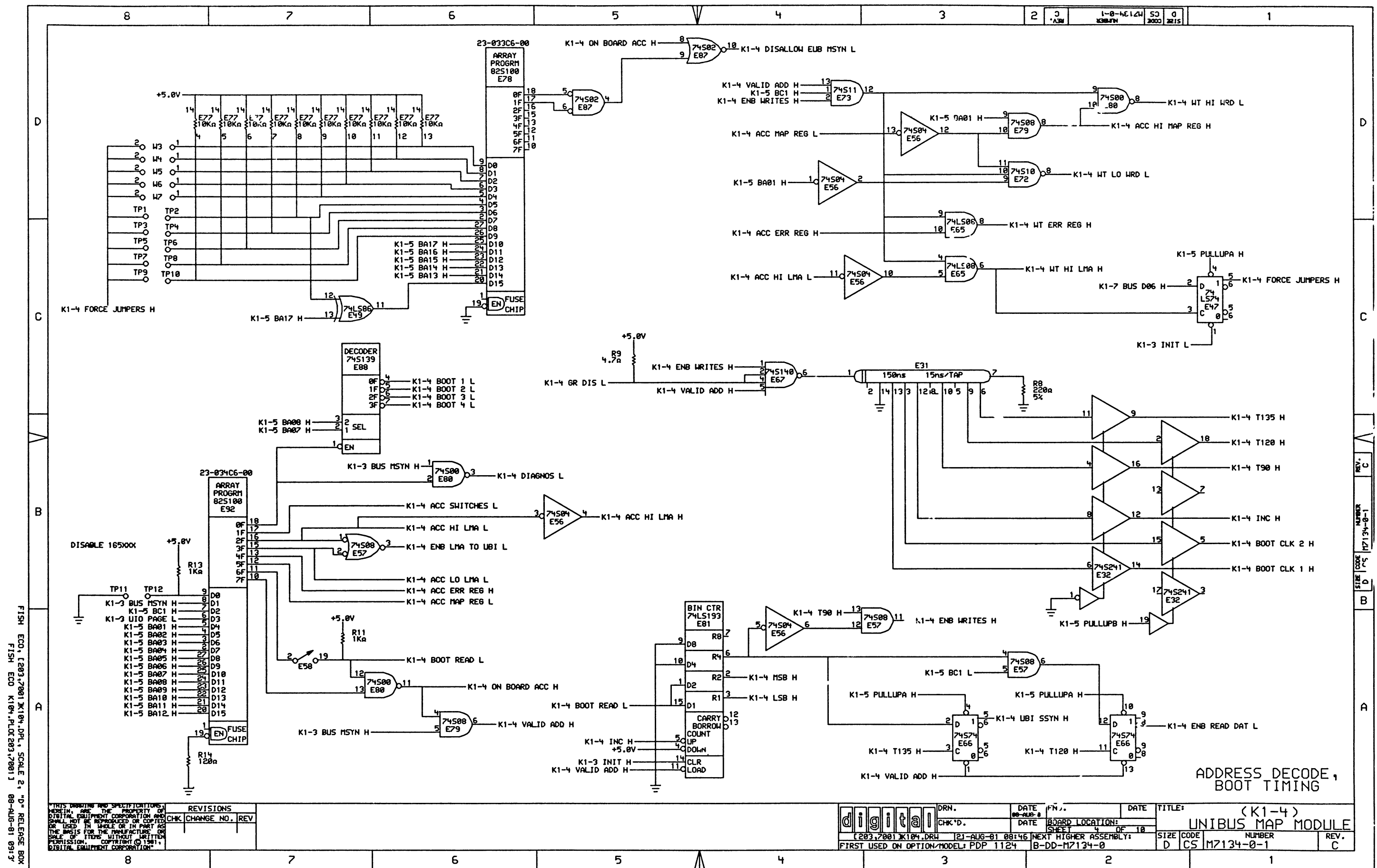
S1-DETERMINES START ADDR(UPPER 3 DIGITS)
WHEN OPEN 773XXX; WHEN CLOSED 765XXX
S2-WHEN ON ENABLES INTERNAL BOOT (SEE NOTE)
S3-S10 ARE BITS 0-1 OF THE STARTING ADDRESS
A CLOSED SWITCH EQUALS A "1" IN THE ADDRESS

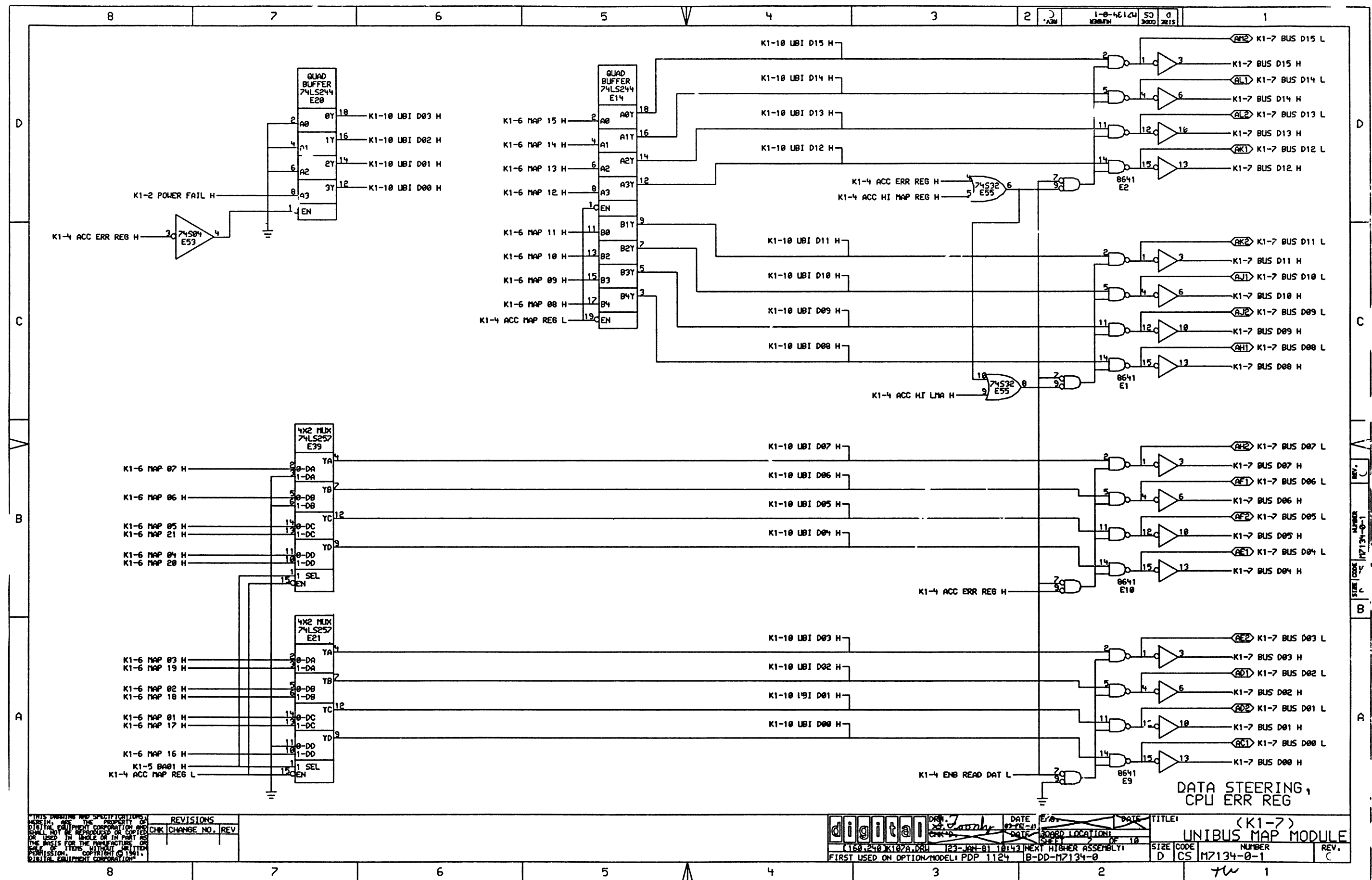
THE SWITCHES ARE VIEWED WITH THE BOARD COMPONENT SIDE UP, GOLD FINGERS AT THE BOTTOM.

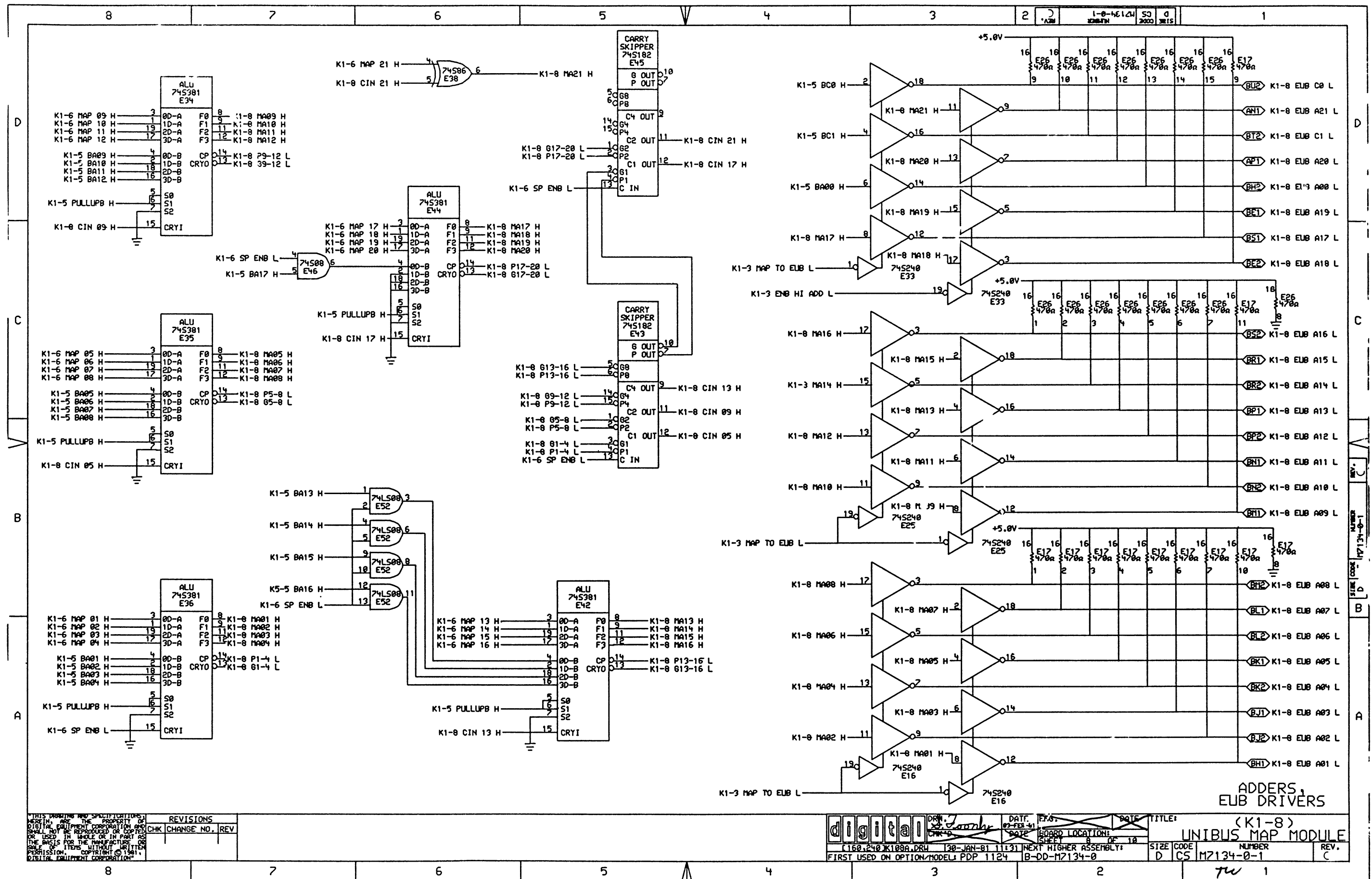
NOTE: A M9302 TERMINATOR MUST BE INSTALLED IN PLACE OF THE M9312 BOOT MODULE WHEN THE INTERNAL BOOT IS ENABLED.

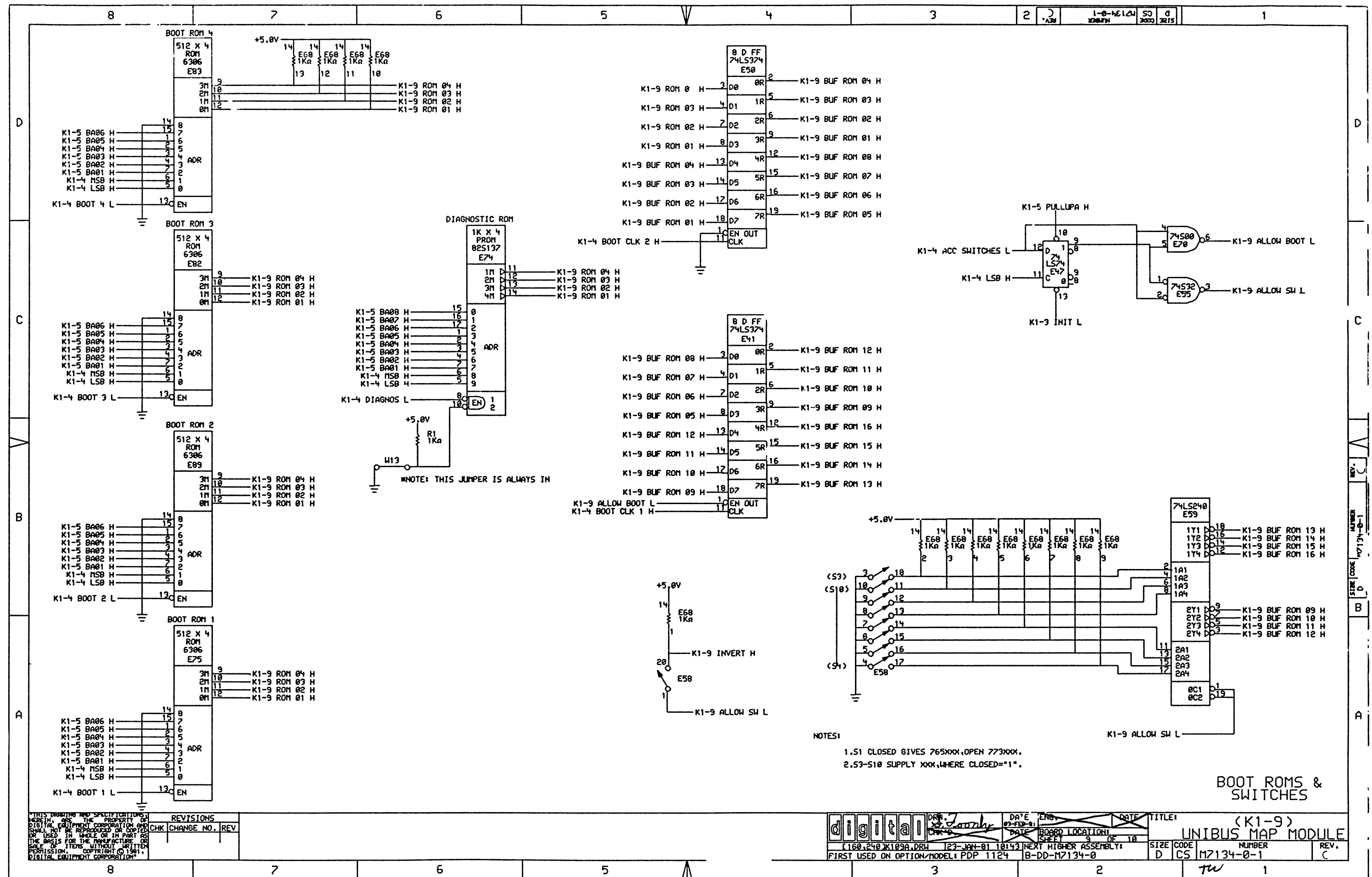
REVISIONS			DATE	BY
CHK	CHANGE NO.	REV		
1	1	1	11/24	R. GRUCA
2	2	1	11/24	R. GRUCA

digital	DATE	ENG.	DATE	TITLE
CHK'D.	11/24	R. GRUCA	11/24	(K1-1) UNIBUS MAP MODULE
160,240 K101A.DRW	103-FEB-81	11:29	11:29	11:29
FIRST USED ON OPTION/MODEL:	11/24	18-DD-M7134-0		





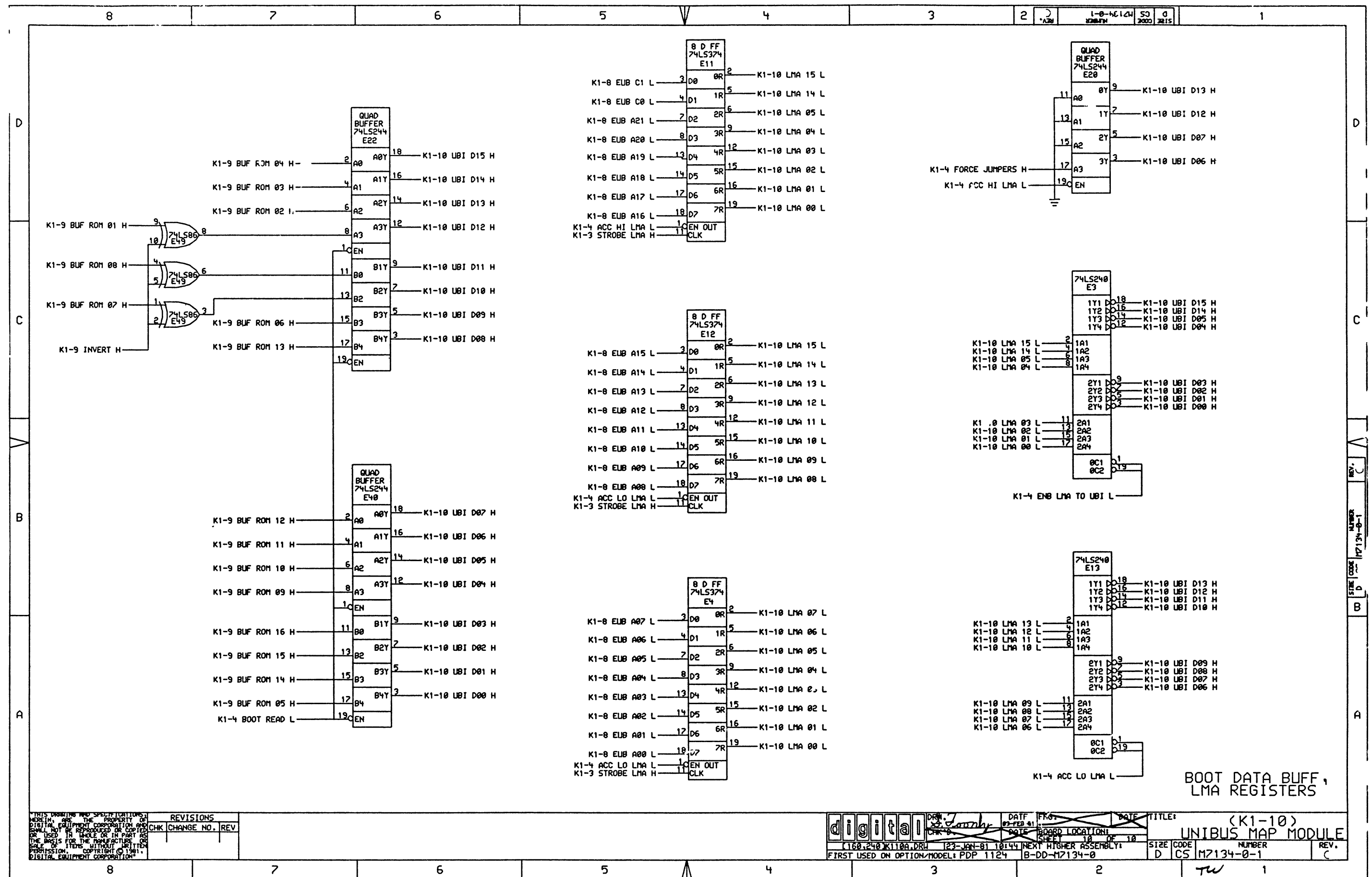




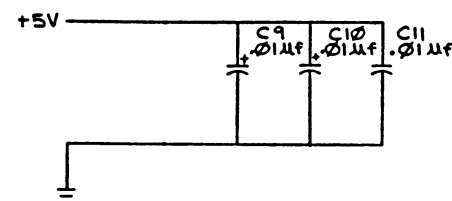
THIS DRAWING AND SPECIFICATIONS ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1981. DIGITAL EQUIPMENT CORPORATION.

REVISIONS
CHK CHANGE NO. REV

digital DRN. 123 JAN 81 10143
DATE ENG. 02-FEB-81
DATE BOARD LOCATION: 9 OF 10
SHEET 9 OF 10
TITLE: (K1-9) UNIBUS MAP MODULE
SIZE CODE D CS M7134-0-1
NUMBER 1
REV. C



NOTES:
1.) THE FOLLOWING REFERENCE
DESIGNATIONS ARE NOT USED:
C8, R64, AND R110.

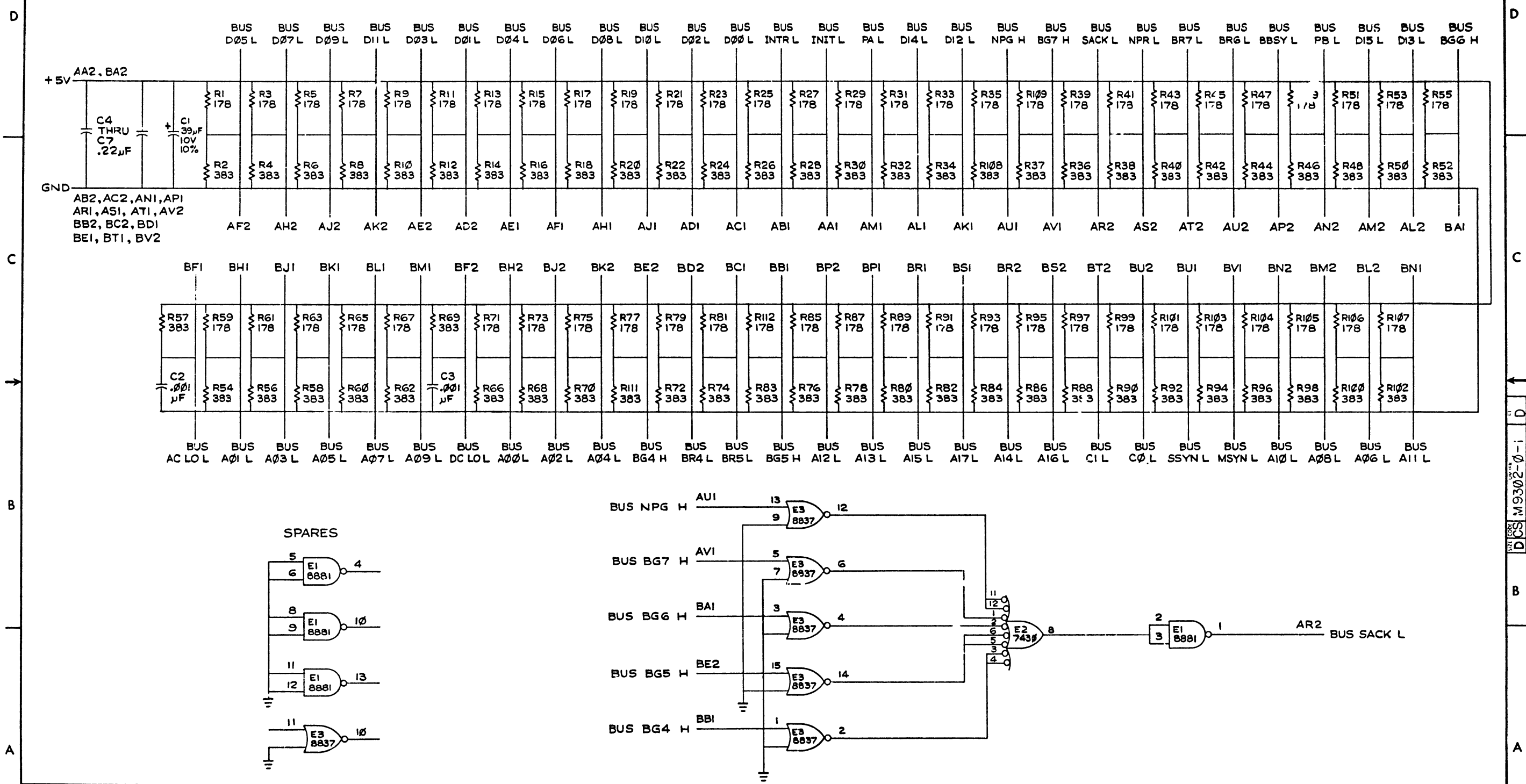


REF ID: A66666

QTY	REF DESIGNATION	DEFINITION	PART NO	TITLE NO
PARTS LIST				
ETCH BOARD REV	B			
		DRN 1 10/9/72	DATE 10/9/72	<div style="border: 1px solid black; padding: 5px; display: inline-block;">digital</div> <div style="display: inline-block; vertical-align: top; margin-left: 10px;"> EQUIPMENT CORPORATION <small>WATKINS MASSACHUSETTS</small> </div>
		CHK D 10/9/72	DATE 10/9/72	
		ENG 10/9/72	DATE 10/9/72	
		PROJ ENG 10/9/72	DATE 10/9/72	
		PROD 10/9/72	DATE 10/9/72	
		NEXT HIGHER ASSY		
DEC NO	EIA NO	SIZE CODE DCS	NUMBER M9302-0-1	REV. D
CONVERSION CHART		SCALE 1/2		
		SHEET 1	OF 2	

<i>Mel. 1st. addng to 338-177</i>	B. BENSTEIN			
338-177	338-177	00000	D.	6
<i>2nd</i>	<i>M9302-00002</i>	<i>00000</i>	<i>D.</i>	<i>6</i>
<i>P. Barry</i>	<i>14 June 76</i>			
	Q BARRY			
	<i>M Benjamin - 338-176</i>			
<i>SEC</i>	<i>M9302-00002</i>	<i>00000</i>	<i>6</i>	
	T DUBANIEWICZ			
<i>338-177</i>	<i>00000</i>	<i>00000</i>	<i>6</i>	
	M9302-00001	00000	B	
CHK	CHANGE NO.		REV	
	REVISIONS			

THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1972 DIGITAL EQUIPMENT CORPORATION



REVISIONS										TITLE		SIZE CODE	NUMBER		REV.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
CHK	CHANGE NO	REV								UNIBUS TERMINATOR		D CS	M9302-0-1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
										SCALE	— / —	SHEET 2	OF 2	DIST.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								

BLANK